Exhibit L-23
Appl. No. 09/558,421

Project No._____

100 Book No._____ TITLE extension on JUMP containing Taq

From Page No._____

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
32P 733.678 P.99	5 →										V
10x Ultma	5										V
10X PCR buffer (Taq)		5	5		5					5	V
1 fl 20x buffer				2.5	5						V
10x Vent buffer						5	5				V
10x Pfu 11								5	5		V
4 dNTPs 10 mM each	1 µl →										V
Ultma 6 u/l	0.4									—	
Taq 5 u/l EKBT (PS09)		0.8									
Tng 5 u/l 11-2-94			0.5								
Tfl 1 u/l				2.5							
Tth (REE) 2.5 u/l					1						
Vent 2 u/l						1.25					
Deep Vent 2 u/l							1.25				
Pfu 2.5 u/l								1			
Dtok 20 u/l									0.2	—	
25mM $MgCl_2$	4	4	4	4	4	—	—	4	4	4	V
H_2O	34.6 / 50 µl	34.2	34.5	35	35	37.8	37.8	37	34.7	35	V

70°C remove 10 µl to 5 µl cycle seq Mop volume at 1, 10, 20

To Page N

Witnessed & Understood by me,	Date	Invented by	Date
Deeanna Polard	1/6/95	Recorded by	12/16/94

Page N .__

~~10* altern~~
pmol ^{32}P 733 total / 50 µl (7.6 nM primer total)

Taq 10 mM Tris pH 8.8, 10 mM KCl 0.02% Tween 20
PCR buffer (BRL) cat # Y02028 20 mM Tris 8.4, 50 mM KCl

(200 µM each dNTP)
4 units pol (~ 0.125 pmol pol molecules)
∴ ~ 3 ^{32}P 733 / 1 pol molecules

*Pfu at 1X = 20 mM Tris pH 8.2 ~~8.75~~, 10 mM KCl ~~10~~ 6 mM $(NH_4)_2SO_4$ 2 mM $MgSO_4$ 1% Triton 1 mg/ml
Vent = 20 mM Tris pH 7.5, 20 mM KCl, 10 mM $(NH_4)_2SO_4$

To Pag No.____

Witnessed & Understood by me, Date 1/6/95
Invented by [signature] Date 12/16/94
Recorded by